STATE OF NEW HAMPSHIRE
Department of Environmental Services
Air Resources Division

Form ARD-3

Information Required for Permits for a Unit of Processing or Manufacturing Equipment

I. EQUIPMENT INFORMATION – *Complete a separate form for each device.*

Device Description: _____

Date Construction Commenced: _____ **Device Start-Up Date:** _____

Equipment Manufacturer: _____

Model Number: _____ **Serial Number:** _____

A. Raw Materials Entering Process

Description	Actual Usage (lb/hr)	Maximum Usage (lb/hr)	Actual Usage (tons/yr)

B. Coatings and Solvents Entering Process

Description	Weight % of Solvent	Reason for Use	Actual Usage (lb/hr)	Maximum Usage (lb/hr)	Actual Usage (tons/yr)

C. Amount of Liquid Waste Discarded: _____ ☐ gal/yr ☐ tons/yr

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C. Stack Information

Is unit equipped with multiple stacks? ☐ Yes ☐ No *(if yes, provide data for each stack)*

Identify other devices on this stack: _____

Is Section 123 of the Clean Air Act applicable? ☐ Yes ☐ No

Is stack monitoring used? ☐ Yes ☐ No

If yes, Describe: _____

Is stack capped or otherwise restricted? ☐ Yes ☐ No

If yes, Describe: _____

Stack exit orientation: ☐ Vertical ☐ Horizontal ☐ Downward

Stack ☐ Inside Diameter (ft) ☐ Exit Area (ft^2)

Discharge height above ground level (ft)

Exhaust Flow (acfm)

Exhaust Velocity (ft/sec)

Exhaust Temperature (°F)

II. OPERATIONAL INFORMATION

A. Supplemental Fuel Usage Information

1. Fuel Supplier:

Supplier's Name

Street

Town/City State Zip Code

Telephone Number

2. Fuel Additives:

Manufacturer's Name

Street

Town/City State Zip Code

Telephone Number

Identification of Additive

Consumption Rate (gallons per 1000 gallons of fuel)

3. Fuel Information *(List each fuel utilized by this device)*:

Type	% Sulfur	% Ash	% Moisture (solid fuels only)	Heat Rating (specify units)	Potential Heat Input (MMBtu/hr)	Actual Annual Usage (specify units)

B. Hours of Operation

Hours per day: _____ Days per year: _____

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III. POLLUTION CONTROL EQUIPMENT ☐ Not Applicable

A. Type of Equipment *Note: if process utilizes more than one control device, provide data for each device*

- ☐ baffled settling chamber
- ☐ long cone cyclone
- ☐ multiple cyclone (_____ inch diameter)
- ☐ electrostatic precipitator
- ☐ spray tower
- ☐ venturi scrubber
- ☐ afterburners (incineration)
- ☐ selective catalytic reduction
- ☐ reburn
- ☐ other (specify): _____
- ☐ wide bodied cyclone
- ☐ irrigated long cone cyclone
- ☐ carbon absorption
- ☐ irrigated electrostatic precipitator
- ☐ absorption tower
- ☐ baghouse
- ☐ packed tower/column
- ☐ selective non-catalytic reduction

B. Pollutant Input Information

Pollutant	Temperature (°F)	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)

Method used to determine entering emissions:

☐ stack test ☐ vendor data ☐ emission factor ☐ material balance

☐ other
(specify): _____

C. Operating Data

1. Capture Efficiency: _____% Verified by: ☐ test ☐ calculations
2. Control Efficiency: _____% Verified by: ☐ test ☐ calculations
3. Normal Operating Conditions *(supply the following data as applicable)*

Total gas volume through unit (acfm)	Temperature (°F)	Percent Carbon Dioxide (CO_2)
Voltage	Spark Rate	Milliamps
Pressure Drop (inches of water)	Liquid Recycle Rate (gallons per minute)	

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IV. DEVICE EMISSIONS DATA:

Pollutant	Temperature (°F)	Actual (lb/hr)	Potential (lb/hr)	Actual (ton/yr)	Potential (ton/yr)

Method used to determine exiting emissions:

☐ stack test ☐ vendor data ☐ emission factor ☐ material balance

☐ other (specify): _____